

## ABSTRACT

A low alloy steel, characterized by consisting of, by mass %, C:0.2-0.55%, Si:0.05-0.5%, Mn:0.1-1%, S:0.0005-0.01%,  
5 O(Oxygen):0.0010-0.01%, Al:0.005-0.05%, Ca:0.0003-0.007%, Ti:0.005-0.05%, Cr:0.1-1.5%, Mo:0.1-1% and Nb:0.005-0.1%, and the balance Fe and impurities; and also characterized by the impurities whose contents are restricted to P  $\leq$  0.03% and N  $\leq$  0.015%; and further characterized by containing composites of inclusions of not  
10 greater than 7 $\mu\text{m}$  in major axis with appearance frequency of not less than 10 pieces of composites per 0.1mm<sup>2</sup> of the steel cross section, wherein the composite comprises an outer shell of carbonitride of Ti and/or Nb surrounding a nucleus of oxysulfide of Al and Ca.

The low alloy steel suppresses pitting caused by inclusions and  
15 suppresses SSC induced by pitting.